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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/603,022	06/24/2003	Neelkanth S. Gupte	210_187DIV	2590
7	7590 07/19/2004		EXAM	INER
Owen D. Marjama			JIANG, CHEN WEN	
WALL MARJA Suite 400	AMA & BILINSKI LLP		ART UNIT	PAPER NUMBER
101 South Salina Street			3744	
Syracuse, NY 13202			D. (77)	

DATE MAILED: 07/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			\wedge \wedge \wedge		
	Application No.	Applicant(s)	1101		
	10/603,022	GUPTE, NEELKANT	н ѕ.\		
Office Action Summary	Examiner	Art Unit			
	Chen-Wen Jiang	3744			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence addre	988 		
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may reply within the statutory minimum of riod will apply and will expire SIX (6) N atute, cause the application to become	/ a reply be timely filed thirty (30) days will be considered timely. ### MONTHS from the mailing date of this comm ##################################	nunication.		
Status					
1)⊠ Responsive to communication(s) filed on 2	4 June 2003.				
	This action is non-final.				
3) Since this application is in condition for allo	wance except for formal m	atters, prosecution as to the m	ierits is		
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 (C.D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>37-58</u> is/are pending in the applic	ation.				
4a) Of the above claim(s) is/are with	drawn from consideration.				
5)⊠ Claim(s) <u>37,38,41,42,53 and 54</u> is/are allow	ved.				
6)⊠ Claim(s) <u>39,40,43-52 and 55-58</u> is/are reje	cted.				
7)⊠ Claim(s) <u>50</u> is/are objected to.					
8) Claim(s) are subject to restriction ar	nd/or election requirement.				
Application Papers					
9) The specification is objected to by the Exan	niner.				
10)⊠ The drawing(s) filed on <u>24 June 2003</u> is/are	: a)⊠ accepted or b)⊡ of	ojected to by the Examiner.			
Applicant may not request that any objection to		•			
Replacement drawing sheet(s) including the co	•	• • •	` '		
11) The oath or declaration is objected to by the	e Examiner. Note the attacl	ned Office Action or form PTO-	·152.		
Priority under 35 U.S.C. § 119					
12)☐ Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C	C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the	· · · · · · · · · · · · · · · · · · ·	en received in this National Sta	age		
application from the International Bu		est received			
* See the attached detailed Office action for a	list of the certified copies i	lot received.			
Address					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Intervio	w Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	lo(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 20030624.		of Informal Patent Application (PTO-15	52)		
S. Patent and Trademark Office	o Action Summer	Dort of Door No /64-11 D /	20040746		
TOL-326 (Rev. 1-04) Offic	e Action Summary	Part of Paper No./Mail Date	20040716		

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DETAILED ACTION

Drawings

1. Figure 1-4 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 39 and 40 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: The structure "H2" and "G2" are not clear in the claims.
- 4. Claims 43-52 and 55-58 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claim 43 recites the limitation "the high temperature heat exchanger" in line 2. There is insufficient antecedent basis for this limitation in the claim.

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6. Claim 45 recites the limitation "the low temperature heat exchanger" in line 2. There is insufficient antecedent basis for this limitation in the claim.

7. Claim 55 recites the limitation "the low stage generator" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Specification

8. Claim 50 is objected to because of the following informalities: "a mechanical valve" in the claim 50 probably should be "an orifice". Appropriate verification and correction are required.

Allowable Subject Matter

- 9. Claims 37,38,41,42,53 and 54 are allowed.
- 10. Claims 39 and 40 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 11. Claims 43-52 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (703) 308-0275. The examiner can normally be reached on Tuesday-Friday from 7:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (703) 308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Chen-Wen Jiang Primary Examiner